
DEPARTMENT OF THE ARMY LRL-02513 (April 1992)
U.S. ARMY CORPS OF ENGINEERS -----
Superseding
CEGS-02513

GUIDE SPECIFICATION FOR MILITARY CONSTRUCTION

SECTION TABLE OF CONTENTS

DIVISION 02 - SITE WORK

SECTION 02513

BITUMINOUS PAVEMENT

04/92

PART 1 GENERAL

- 1.1 SUMMARY (Not Applicable)
- 1.2 REFERENCES
- 1.3 GENERAL
- 1.4 SUBMITTALS
- 1.5 ABBREVIATIONS AND DEFINITIONS
- 1.6 CONTROL OF MATERIALS
- 1.7 MEASUREMENT AND PAYMENT
- 1.8 SURFACING
 - 1.8.1 General
 - 1.8.2 JOB-MIX FORMULA
- 1.9 QUALITY CONTROL
 - 1.9.1 LABORATORY
 - 1.9.2 CAPABILITY CHECK OF CONTRACTOR-FURNISHED FIELD LABORATORY
 - 1.9.3 CAPABILITY RE-CHECK OF CONTRACTOR-FURNISHED FIELD LABORATORY
 - 1.9.4 USE BY GOVERNMENT OF CONTRACTOR-FURNISHED FIELD LABORATORY
- 1.10 TESTING PROGRAM
- 1.11 MAINTENANCE OF WORK

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

-- End of Section Table of Contents --

DEPARTMENT OF THE ARMY LRL-02513 (April 1992)
U.S. ARMY CORPS OF ENGINEERS -----
Superseding
CEGS-02513

GUIDE SPECIFICATION FOR MILITARY CONSTRUCTION

SECTION 02513

BITUMINOUS PAVEMENT
04/92

NOTE: This guide specification covers the
requirements for layout of a CECS. This guide
specification is to be used in the preparation of
project specifications in accordance with ER
1110-345-720.

PART 1 GENERAL

NOTE: See Additional Note A.

1.1 SUMMARY (Not Applicable)

NOTE: Paragraph "1.1 SUMMARY (Not Applicable)" is
required in all CECS in order to make CECS
compatible with guide specifications of other
agencies within the SPECSINTACT system. However,
this paragraph is not to be included in Corps of
Engineers project specifications.

1.2 REFERENCES

NOTE: Issue (date) of references included in
project specifications need not be more current than
provided by the latest change (Notice) to this guide
specification.

If the section does not have references retain the
paragraph number and title, "1.2 REFERENCES (Not
Applicable)", then use the following note but omit
the text of the paragraph.

NOTE: Paragraph "1.2 REFERENCES (Not Applicable)" is required in any CEGS which does not cite references in the text. This is necessary to permit SPECSINTACT to perform the automated operations pertaining to references for the section and the project. However, if no references are added to the section when preparing project specifications, the paragraph should not be included in the final project specifications.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
(AASHTO)

AASHTO T-27 (1984) Sieve Analysis of Fine and Coarse Aggregate

AASHTO T-30 (1984) Mechanical Analysis of Extracted Aggregate

AASHTO T-164 (1986) Quantitative Extraction of Bitumen from Bituminous Paving Mixtures

AASHTO T-168 (1986) R Sampling Bituminous Paving Mixtures
AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C-127 (1984) Specific Gravity and Absorption of Coarse Aggregate

ASTM C-128 (1984) Specific Gravity and Absorption of Fine Aggregate

ASTM E-548 (1984) Standard Practice for Preparation of Criteria for use in the Evaluation of Testing Laboratories and Inspection Bodies

ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)

IDOT Standard Specifications for Road and Bridge Construction

1.3 GENERAL

All work and materials shall conform to the applicable requirements of Section 200 through Section 800 of the Illinois Department of Transportation (IDOT) Specifications except as noted in these specifications, construction plans or contract documents. In case of difference between IDOT Specifications and the CONTRACT CLAUSES and SPECIAL

CONTRACT REQUIREMENTS of this Solicitation, the CONTRACT CLAUSES and SPECIAL CONTRACT REQUIREMENTS shall govern. Load restrictions shall be in accordance with 107.16 of IDOT Specifications.

1.4 SUBMITTALS

NOTE: Submittals must be limited to those necessary for adequate quality control. The importance of an item on the project should be one of the primary factors in determining if a submittal for the items should be required.

Indicate submittal classification in the blank space following the name of the item requiring the submittal by using "G" when the submittal requires Government approval. Submittals not classified as "G" will show on the submittal register as "Information Only". For submittals requiring Government approval, a code of up to three characters should be used following the "G" designation to indicate the approving authority; codes of "RE" for Resident Engineer approval, "ED" for Engineering approval, and "AE" for Architect-Engineer approval are recommended.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Job Mix Formula (JMF); G.RE. Aggregates; G,RE.
Bituminous Material; G,RE.

The job mix formula, at least 14 days before it is to be used.
Notification on the selection of aggregate source Notification on the selection of bituminous materials source.

Bituminous Material

Certified copies of the bituminous material manufacturer's test reports indicating compliance with applicable specified requirements, not less than 30 days before the material is required in the work.

SD-06 Test Reports

Test

Certified copies of aggregate test results, not less than 30 days before the material is required in the work.

1.5 ABBREVIATIONS AND DEFINITIONS

Standard abbreviations shall be in accordance with Section 101.01 of the IDOT Specifications. Where such terms as "Chairman," "Commission," "Engineer," or "Department" are used, they shall mean "Contracting Officer." Whenever the words "Extra Work" or similar phrase is used, it shall mean "Changes" as defined in the CONTRACT CLAUSES.

1.6 CONTROL OF MATERIALS

Control of materials shall be in accordance with Section 106 of IDOT Specifications in addition to the requirements of the CONTRACT CLAUSES.

1.7 MEASUREMENT AND PAYMENT

Measurement and payment will be made part of the Lump Sum Payment for the project.

1.8 SURFACING

1.8.1 General

Surfacing (consisting of 2" base and 1" surface) shall be in accordance with the plans and per the applicable sections of the IDOT Specifications, except quality control testing.

1.8.2 JOB-MIX FORMULA

The Contractor shall submit to the Contracting Officer for approval five copies of the bituminous concrete job-mix formulas. The job-mix formulas shall be based on Section 406 of the IDOT Specifications for Class SI, type I mixtures.

1.9 QUALITY CONTROL

1.9.1 LABORATORY

The Contractor shall furnish onsite laboratory facilities sufficiently staffed and equipped to perform the testing specified. As an alternative, the Contractor may procure the services of an industry recognized laboratory. If the Contractor elects to furnish a laboratory facility, the exact location on the project site shall be subject to the approval of the Contracting Officer.

1.9.2 CAPABILITY CHECK OF CONTRACTOR-FURNISHED FIELD LABORATORY

The Contracting Officer reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth herein, and to check the laboratory technicians testing procedures and techniques.

The laboratory will be evaluated based on the criteria of ASTM E-548.

1.9.3 CAPABILITY RE-CHECK OF CONTRACTOR-FURNISHED FIELD LABORATORY

Should be laboratory fail the capability check, the Contractor will be assessed a charge of \$1000 to reimburse the Government for each succeeding recheck of the laboratory or the checking of a subsequently selected laboratory.

1.9.4 USE BY GOVERNMENT OF CONTRACTOR-FURNISHED FIELD LABORATORY

The Contracting Officer reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance test and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

1.10 TESTING PROGRAM

The frequency of the tests listed hereinafter is the minimum acceptable. Additional tests may be required to demonstrate compliance with the contract. The location of each test chosen shall be selected to provide adequate representation of the material being placed and to obtain the maximum coverage of each lift or layer placed. The listing of these tests does not relieve the Contractor of the responsibility for performing the infrequent tests designated in other sections of these specifications. The Contracting Officer may select the time and location for any testing required under this contract., Standards indicated in parentheses are alternate testing standards essentially equal to the first method indicated. The Contractor shall identify which standard was used when submitting test results.

1.11 MAINTENANCE OF WORK

Maintenance of work shall be in accordance with Section 107.25 of IDOT Specifications

PLANT MIX ASPHALT PAVEMENTS

Fine Aggregate

Grain Size Analysis	AASHTO T-27	Cold feed,
---------------------	-------------	------------

1 test per 3 shifts

Hot bin,
1 test per shift

Oven Dry Bulk Specific Gravity	ASTM C-128	1 Test
-----------------------------------	------------	--------

Coarse Aggregate

Grain Size Analysis	AASHTO T-27	Cold feed,
1 test per 3 shifts		

Hot bin,

1 test per shift

Oven Dry Bulk Specific Gravity	ASTM C-127	1 test
-----------------------------------	------------	--------

Bituminous Mixtures

Extraction of Bitumen AASHTO T-168 Extraction AASHTO T-164	Sampling	1 test per shift
---	----------	------------------

Mechanical Analysis of Extracted Aggregate	AASHTO T-30	1 test per shift
--	-------------	------------------

Pavement Sample (for Thickness) and Replace with new Material	Cut Full Depth from Compacted Pavement	1 per 10,000 SF
--	---	-----------------

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED
-- End of Section --